

CAN RENEWABLE ENERGY SUCCEED ?

Prepared by Frances Jérémie



Agenda

Introduction

Part 1 : Presentation of countries adopting fully or partially renewable energy

Part 2 : Difficulties with the ecological transition

Conclusion

Introduction

Issue : How can renewable energies succeed in achieving the COP21 climate ambitions while meeting the world's growing energy needs?



Key words :

- **Renewable energies**
- **Greenhouse gas effect**
- **"COP 21"**

Part 1 : successful countries adopting full renewables energies



Illustration of geothermal energy in Iceland

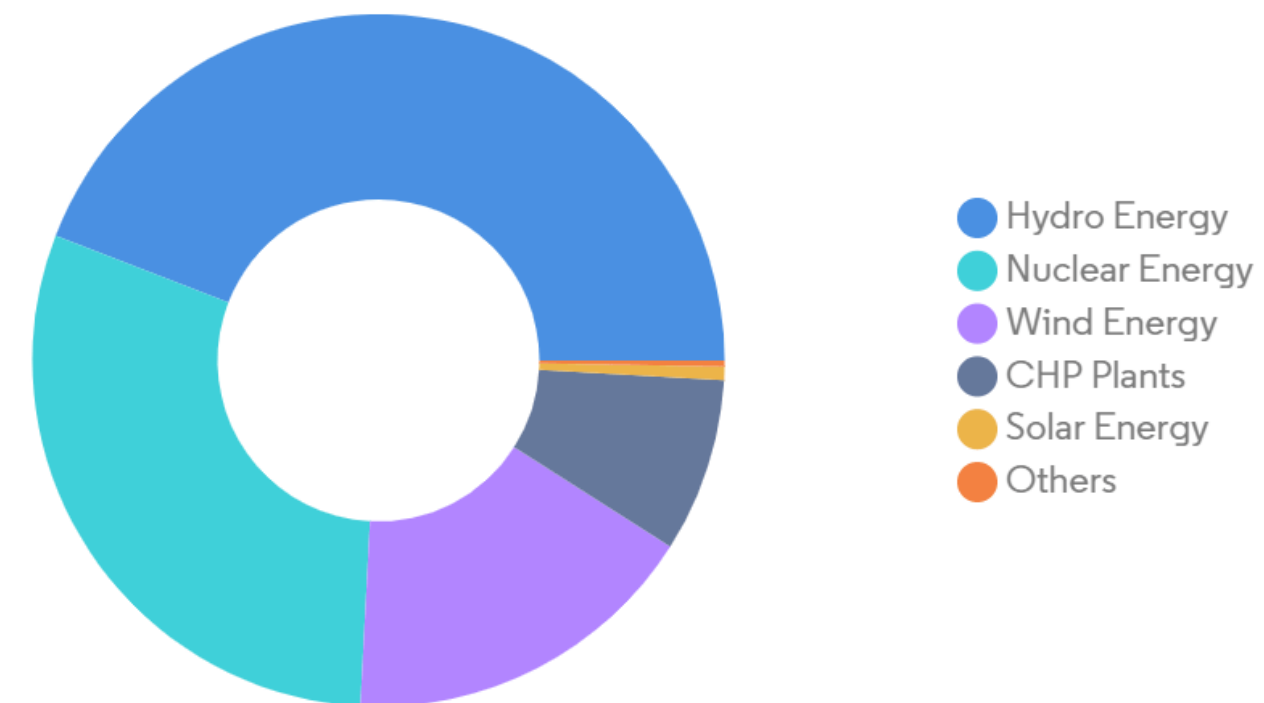


Illustration of a hydroelectric plant in Costa Rica

Interested case of Sweden Adopting multiples renewables energies



Gross Electricity Generation, in Share (%), by Power Plant Type, Sweden, 2021



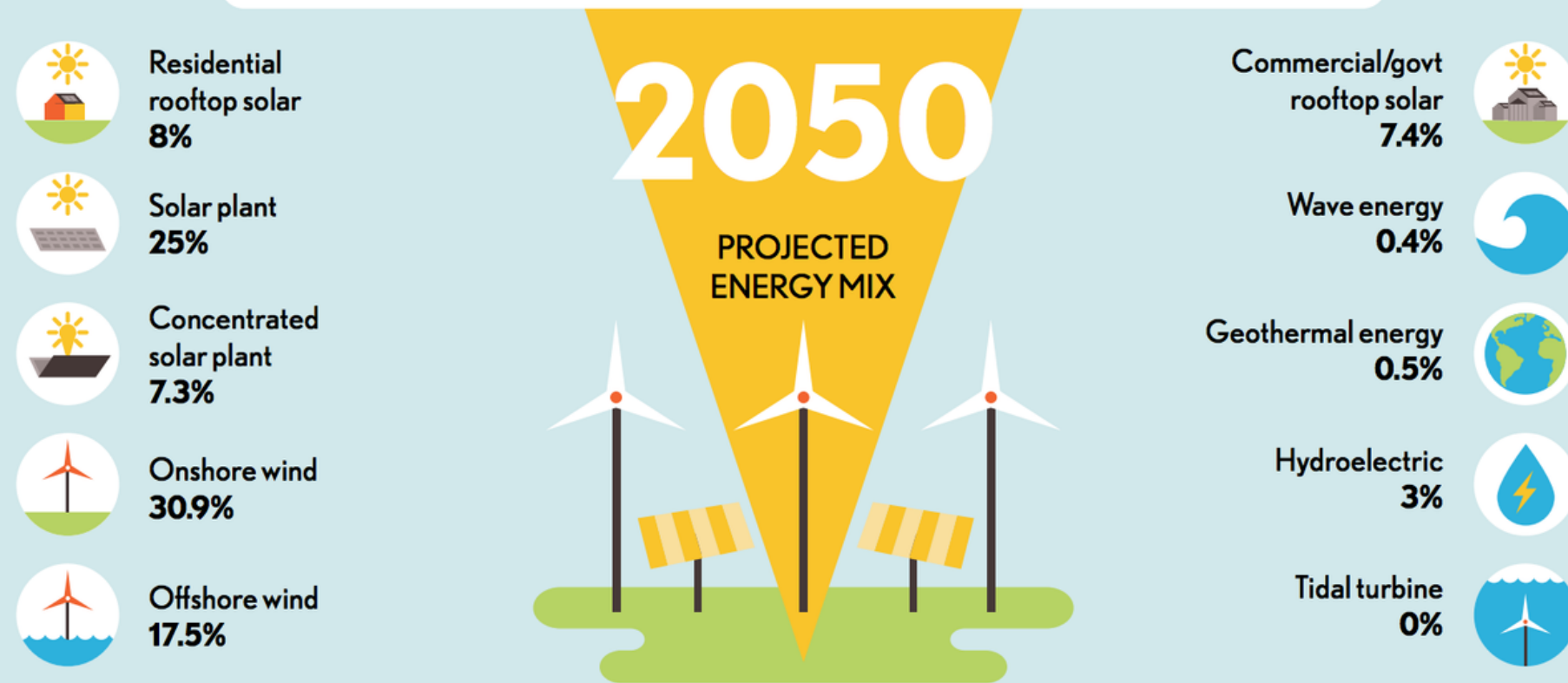
Source: Statistics Sweden



Part 2 : Some countries liking behind lagging because they are still depending on fossils energies

100% UNITED STATES

Transition to 100% wind, water, and solar (WWS) for all purposes
(electricity, transportation, heating/cooling, industry)



40-Year Jobs Created

Number of jobs where a person is employed for 40 consecutive years

Operation jobs: 5 icons

Construction jobs: 5 icons

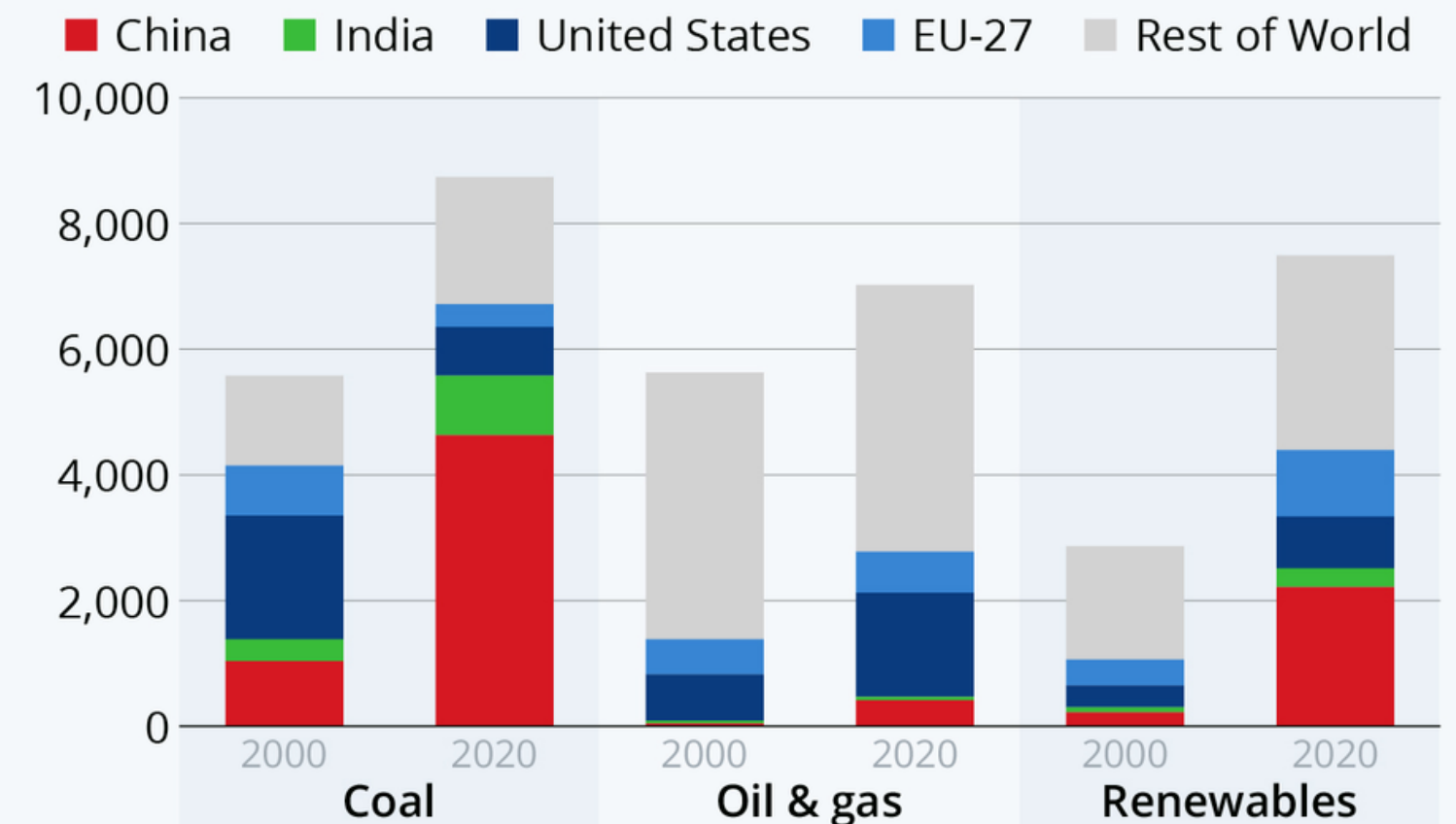
1 icon = 500,000

2,815,850

2,285,816

China's Energy Demand Sees Coal and Renewables Soar

Electricity generation by source and country/region in 2000 and 2020 (in terrawatt hours)



Source: Ember Global Electricity Review 2021



statista

Conclusion

Key points to keep in mind :

- **Each country is able to make its ecological transition but at different speeds**
- **The only option to achieve zero emissions: renewable energy**
- **This acceleration of transition is possible by educating people and if all actors play their role in this transition**
- **To succeed with renewables energies, it must be a global play !**

Sources :

- <https://www.connaissancedesenergies.org/la-suede-veut-devenir-lun-des-premiers-pays-sans-energies-fossiles-220218>
- <https://climate.selectra.com/fr/empreinte-carbone/neutralite-carbone#la-neutralite-carbone-en-2050-un-objectif-prioritaire>
- https://www.wwf.fr/sites/default/files/doc-2017-07/11_rapport_energie.pdf
- <https://www.ren21.net/what-are-the-current-trends-in-renewable-energy/>
-